

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(45th Epidemiological Week)

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This bulletin includes the updates from the Early Warning Reporting System (EWARS). It includes data since January 2017 till date, including comparison of same period during last year.

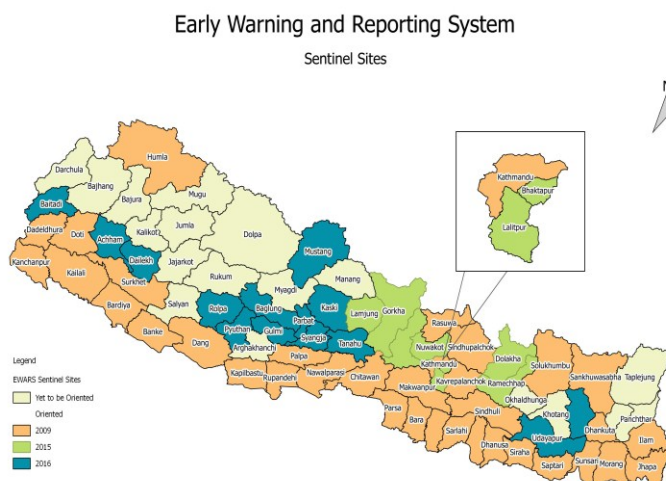
Section 1: The Early Warning and Reporting System (EWARS)

Highlights

- **Dengue:** A total of 1942 Dengue cases have been reported from 28 different districts since January 2017, out of which 545 cases from Rupandehi, 543 from Jhapa, 438 from Mahottari and 130 from Sarlahi district.
- **Kala-azar:** Four cases of Kala azar are reported this week one each from United Mission Hospital, Palpa, BPKIHS, Dharan, Sukraraj Tropical and Infectious disease Hospital, Teku and Lumbini Zonal Hospital, Rupandehi. The cases are from Palpa, Saptari, Rolpa and Pyuthan district.
- **Malaria:** One case of Malaria (*Plasmodium Falciparum*) is reported this week from Koshi Zonal Hospital, Morang and the case is from Morang district.
- **Scrub Typhus:** 14 cases of Scrub Typhus are reported this week, 7 from United Mission Hospital, Palpa, 3 from Kanti Children Hospital, Kathmandu, 2 from Sukraraj Tropical and Infectious Disease Hospital, Kathmandu and 2 from District Hospital, Pyuthan.
- **AGE:** Two deaths from AGE are reported this week, one each from Koshi Zonal Hospital, Morang and Patan Hospital, Lalitpur. The deceased were from Morang and Lalitpur district.
- **SARI:** Three deaths from SARI are reported this week, one from United mission Hospital, Palpa and two from Patan Hospital, Lalitpur. The deceased were from Gulmi, Kaski and Lalitpur district.

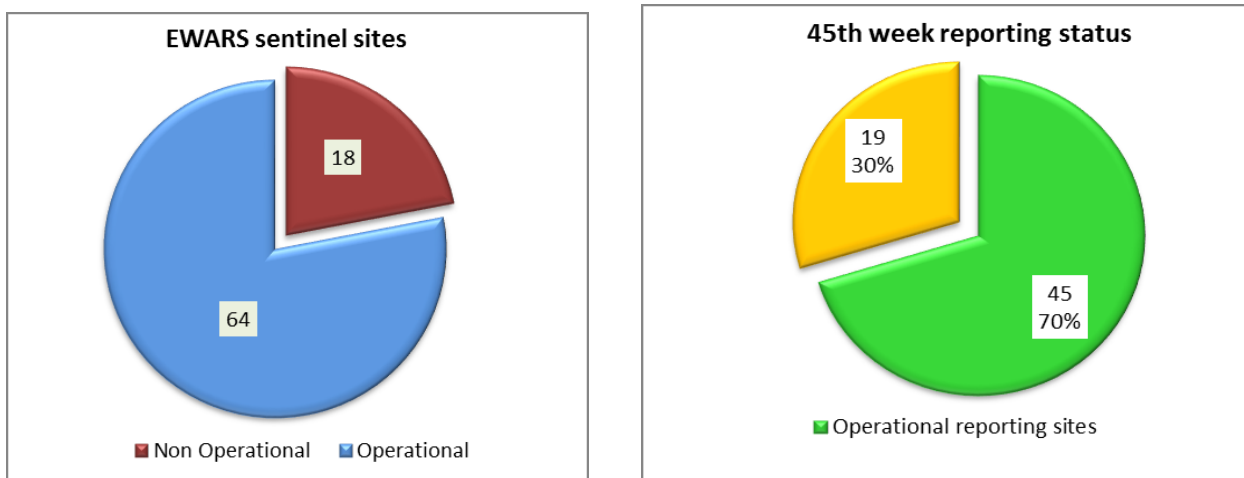
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs) can be mobilized at short notice to facilitate prompt outbreak response at Central, Regional and District level. RRTs can also support local level health institutions for investigation and outbreak control activities.

This information system is hospital-based and is currently operational in 64 hospitals (out of 82 sites) throughout Nepal (Figure 1). So far, the EWARS mainly focuses on the **weekly reporting** of number of cases and deaths (including "zero" reports) of six priority diseases/syndromes—Malaria, Kala-azar, Dengue, Acute Gastroenteritis (AGE), Cholera and Severe Acute Respiratory Infection (SARI), and other epidemic potential diseases/syndromes (like enteric fever). It equally focuses on **immediate reporting** (to be reported within 24 hours of diagnosis) of one confirmed case of Cholera, Kala-azar severe and complicated Malaria and one suspect/clinical case of Dengue as well as 5 or more cases of AGE and SARI from the same geographical locality in one week period.



Reporting Status

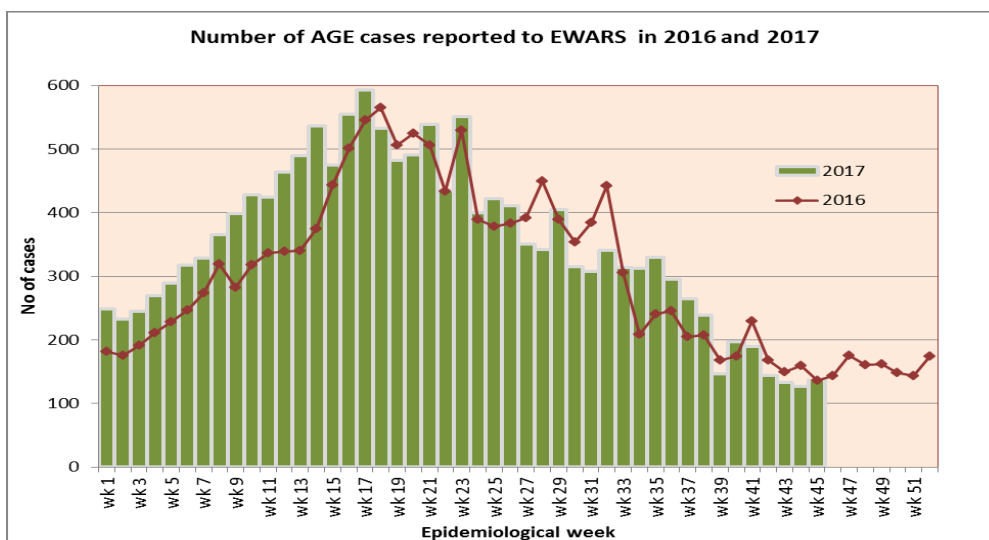
Out of 64 functional EWARS sentinel sites, report was received from 45 sentinel sites (70 percent) whereas 19 sentinel sites did not report in 45th Epidemiological week of 2017. The reporting coverage is slightly decreased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

137 cases of AGE are reported in 45th epidemiological week of 2017. Among 137 cases, the majority of cases are from Dhanusha (14 cases), Dolakha (10 cases), Pyuthan (8 cases), Rupandehi (7 cases), Morang (6 cases), Illam (6 cases), Jhapa (6 cases), Kanchanpur (6 cases), Bara (6 cases) and Panchthar (5 cases) district. The number of AGE cases reported in 45th week this year is same as the number of AGE cases reported in the same week last year (136 cases).

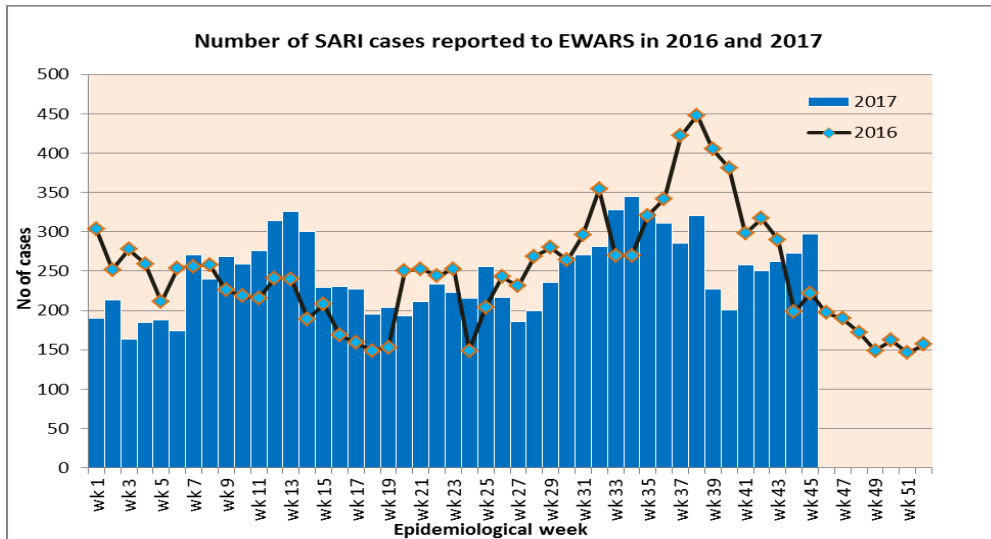
Two deaths from AGE are reported this week, one each from Koshi Zonal Hospital, Morang and Patan Hospital, Lalitpur. The deceased were from Morang and Lalitpur district. Nineteen deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

297 cases of SARI are reported in 45th epidemiological week of 2017. The cases of SARI reported this week exceed the number reported in the same week last year (222 cases). Among 297 cases, the majority of cases are from Jhapa (35 cases), Morang (28 cases), Syangja (22 cases), Gulmi (15 cases), Lalitpur (15 cases), Dhankuta (13 cases), Palpa (12 cases), Panchthar (12 cases), Kanchanpur (11 cases), Kapilbastu (11 cases) and Sunsari (10 cases) district.

Three deaths from SARI are reported this week, one from United mission Hospital, Palpa and two from Patan Hospital, Lalitpur. The deceased were from Gulmi, Kaski and Lalitpur district. Seventy five deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

50 cases of Enteric fever are reported this week, including 11 from Kaski, 6 from Morang, 3 from Sindhuli, 3 from Bardiya and 3 from Dhading district. Three deaths from Enteric Fever are reported so far this year.

1.4 Malaria

One case of Malaria (*Plasmodium Falciparum*) is reported this week from Koshi Zonal Hospital, Morang and the case is from Morang district.

Eighty eight cases of Malaria are reported so far this year. Eighty three cases of Malaria were reported through EWARS in 2016.

1.5 Dengue

A total of 1942 Dengue cases have been reported from 28 different districts since January 2017, out of which 545 cases from Rupandehi, 543 from Jhapa, 438 from Mahottari, 130 from Sarlahi, 67 from Dhading, , 46 from Kapilbastu, 27 from Dhanusha, , 29 from Nawalparasi, 23 from Chitwan, 15 from Arghakhanchi , 13 from Gulmi, 12 from Rautahat, , 11 from Dang, , 11 from Palpa, 10 from Pyuthan, 4 from Rolpa , 3 from Makawanpur, 3 from Baglung, 2 from Bara, 2 from Surkhet and one each from Syangja, Dailekh, Banke, Bhaktapur, Kathmandu, Achham, Gorkha and Kaski.

1.6 Kala-azar

Four cases of Kala azar are reported this week one each from United Mission Hospital, Palpa, BPKIHS, Dharan, Sukraraj Tropical and Infectious disease Hospital, Teku and Lumbini Zonal Hospital, Rupandehi. The cases are from Palpa, Saptari, Rolpa and Pyuthan district.

One hundred ninety six cases of Kala-azar cases are reported so far this year. 150 cases of Kala-azar were reported through EWARS in 2016.

1.7 Scrub Typhus

14 cases of Scrub Typhus are reported this week, 7 from United Mission Hospital, Palpa, 3 from Kanti Children Hospital, Kathmandu, 2 from Sukraraj Tropical and Infectious Disease Hospital, Kathmandu and 2 from District Hospital, Pyuthan. The cases are from Palpa, Arghakhanchi, Gulmi, Makawanpur, Okhaldhunga, Sarlahi, Sindhuli, Dhading and Pyuthan district.

431 cases of Scrub Typhus are reported so far this year.

Timeliness & completeness of reporting from sentinel sites:

Site Code	Sentinel Sites	Timeliness (This Week)	Completeness (%)	Site Code	Sentinel Sites	Timeliness (This Week)	Completeness (%)
101	Mechi ZH, Jhapa	On Time	100	135	DH, Sindhuli	On Time	97
102	Koshi ZH, Morang	On Time	100	136	DH, Illam	On Time	100
103	DH, Sunsari	On Time	100	137	Dhulikhel H., Kavre	No reporting	85
104	BPKIHS, Dharan	On Time	100	138	DH, Solukhumbu	No Reporting	48
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	No Reporting	0
106	SZH, Saptari	No Reporting	30	140	DH, Humla	No Reporting	0
107	RKUP Lahan, Siraha	On Time	100	201	L. Comm DH, Lamjung	On Time	100
108	DH, Siraha	No Reporting	97	202	DH, Dhading	On Time	40
109	JZH, Dhanusha	On Time	90	203	DH, Ramechhap	On Time	100
110	DH, Rautahat	No Reporting	90	204	Bhaktapur Hospital	No reporting	18
111	DH, Bara	On Time	100	205	Patan Hospital, Lalitpur	On Time	100
112	NSRH, Parsa	On Time	84	206	DH, Gorkha	On Time	100
113	DH, Makawanpur	No Reporting	97	207	DH Trishuli, Nuwakot	No Reporting	0
114	NZH, Chitwan	No Reporting	95	208	Charikot PHCC, Dolakha	On Time	100
115	Kanti CH, Kathmandu	On Time	100	209	Jiri H, Dolakha	On Time	98
116	STH, Kathmandu	On Time	100	210	DH, Syangja	On Time	100
117	UMH, Palpa	On Time	100	211	DH, Tanahun	No Reporting	88
118	PCH, Nawalparasi	On Time	100	212	WRH, Kaski	On Time	100
119	PBH, Kapilbastu	On Time	100	214	DH, Gulmi	On Time	100
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	On Time	100
121	RSRH Dang	On Time	95	218	DH, Manang	On Time	54
122	MWRH, Surkhet	On Time	100	219	DH, Mustang	On Time	76
123	BZH, Banke	No reporting	70	220	DH, Pyuthan	On Time	100
124	SZH, Kailali	No Reporting	40	221	DH, Rolpa	No Reporting	10
125	MZH, Kanchanpur	On Time	100	229	DH, Achham	On Time	100
126	DH, Doti	On Time	91	230	DH, Baitadi	On Time	86
127	DH, Bardiya	On Time	100	235	DH, Panchthar	On Time	100
128	DH, Mahottari	No Reporting	30	237	DH, Bhojpur	No Reporting	20

129	DH, Dadeldhura	No Reporting	0	238	DH, Khotang	On Time	52
130	DH, Rasuwa	No Reporting	40	240	DH, Udayapur	No Reporting	0
131	DH, Sankhuwasabha	On Time	85	301	Bayalpata Hosp., Achham	On Time	100
132	AMDA Hosp., Jhapa	On Time	100				
133	DH, Chautara	On Time	100				
134	DH, Sarlahi	On Time	97				
							Excellent (>80)
							Satisfactory (50-79)
							Bad(<50)

Acknowledgement

The Epidemiology and Disease Control Division highly acknowledges the contribution from all the medical recorders, EWARS focal persons, rapid response team members and support from WHO for preparation of this bulletin.

Note: EWARS reporting form (in MS Excel format) is available at EDCD's official website www.edcd.gov.np. This bulletin is also available at the website.